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MONSANTO

FROM: G. A. Grundmann (4-6112) Corporate Engineering - CS6G

DATE: December 13, 1985 CC: L. V. Bumbicka - 1740*

SUBJ: Project Progress Meeting M. A. Coco - JSA

REF: CEA 3808 - Main South Trunk J. Colling - 1740
Sewer R. J. Geile - CS6G

TO: P. R. Hoemann - 1740

L. C. Kreh - F2ED

B. W. Steketee - 1740

R. L. Wiese - CS6G

J. J. Beckerle - JSA

W. Bodine - JSA

W. C. Koester - JSA*

K. W. Lichtenheld - CS6G*

C. J. Lotz - JSA*

R. L. Nelson - 1740*

K. W. Petterson - 1740*

R. Schlereth - Fleischer Seeger**

R. B. Knoll - Fleischer Seeger

*Present At Meeting

**Present Part Time

Following are minutes of the meeting held at the CED construction trailers on 12/12/85 at 9:30 a.m.

1. Construction Progress

- a. The driving of piling between 3-AA and 3-BB will be complete today. Also 1 set of piles has been driven south of 3-BB so the manhole can be built.
- b. The walls for manhole 3-AA have been poured and will be stripped today.
- c. Most of the 42" VCP has been placed in the trench between 2-DD and 3-AA. Also a number of joints have been made.
- d. The 42" VCP run between 2-CC and 2-DD will be ready for hydro test on 2/13/86.

The firewater, which has been unavailable for this test for a few days, should be ready for use at this time.

- e. Manhole 2-AA leaked at one point during testing. Lichtenheld and Nelson to look at the crack and make recommendations. Manhole 2-BB should be ready for testing on 2/13 or 2/16.
- f. Alberici feels there may be a leak into the trench between 2-CC and 2-DD during heavy rains that could come from sources other than groundwater.
- g. Lateral L-44 to manhole 1-DD will be installed the week of 12/16/85.

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- h. Cleanup of the sewer area up to manhole 2-AA was requested including the materials on the southeast corner of BB-2.

2. Internal Manhole Work

- a. Fleischer Seeger is stopped until manholes are ready for them.
- b. Manhole 2-EE should be ready for Fleischer Seeger on 12/16. After that, manhole 1-DD should be ready on 12/23. Manholes 1-EE and 1-JJ should be available shortly after these first two are ready.
- c. The cracks in manhole 1-EE, which seem to be shrinkage cracks, will be reviewed by Lichtenheld and Nelson. One possible repair would be fiberglass and epoxy. The possibility of using an epoxy concrete for crack filling will be reviewed by Lichtenheld and Nelson.
- d. Manhole 1-D-1 will be dried up and ready for Fleischer Seeger to begin work on 12/16. The sulfur membrane will not be replaced. An asphalt membrane will be installed prior to installation of the brickwork. Subject to review by Lichtenheld and Nelson, furalac cement will be used to join the new brick to the old brick.

3. T-3 Jumper

- a. Work on the jumper continues. The wet weather has hampered progress. The tie in to existing manhole 4-C can be done in about 1 week.
- b. The brickwork in both manholes was targeted to coincide with department shutdowns. Chlor Alkali will shutdown the week of 12/16. MCB will not have its shutdown in mid-December as originally planned. This timing needs to be reviewed. Petterson and Nelson.
- c. Based on projections of the sewer work to manhole 3-BB, this jumper must be complete by 2/1/86.

4. ACL

The shutdown work at ACL was completed on schedule. A good job was done by all who were involved.

5. Department 245

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- a. Piling has been driven to 3-BB as planned.
- b. Work around this department is covered in more detail in paragraph 7 and covers the results of the meeting with department 245 personnel on 12/10/85.

6. Miscellaneous

- a. Drawing work is in progress on the relocation of manhole 2-FF. In addition, the revised location of manhole 3-CC and elimination of 3-DD is being checked and redrawn to insure that this revision is workable.
- b. Work may begin on lateral L-35. Petterson to find an electricity source for heaters. Alberici to review the methods available for keeping the pipe warm during the curing period after the repairs have been completed..
- c. A routing drawing for the electrical power supply to the instrument house was issued for plant review.

7. Work South of 3-BB

- a. Alberici is ready to begin excavation from 3-AA to 3-BB the week of 12/16. This is probably possible if the access and storage problems for department 245 can be resolved. Plans were developed and will be reviewed with J. Colling.

Another problem preventing the excavating from beginning is that #3 track must be kept open until another through track towards the west end of the plant can be opened. It appears that track #7 east of manhole 2-AA can be opened providing Fleischer Seeger can get their work shed over manhole 2-EE without interfering with the rail operation on track #7. Petterson and Nelson to check.

- b. Nelson advises that there is probably sand fill between manholes 3-BB and 3-CC. If this is true, the soldier beams and lagging would not be acceptable. Alberici to develop a cost to use sheet piling in this area.
- c. The location of manhole 3-CC is being reviewed to see if it can be relocated and manhole 3-DD eliminated. Lichtenheld
- d. The question was raised as to whether the existing manhole 4-A can be dismantled and the new manhole 3-EE built at this location. A rough cost estimate needs to be generated to determine the cost effect. There is additional dismantling changes as well as an additional 40' of 42" VCP. Engineering costs need also to be addressed.

Due to the poor condition of manhole 4-A, it is not considered feasible at this time to run the 42" VCP directly into manhole 4-A and eliminate manhole 3-EE.

- e. Since the access arrangements for dept. 245 are more clear at this time, details can be worked out on the storm water overflow pump, which will pump from existing manhole 33-B to existing manhole 2-U. Feld and Crain to be consulted. It will be necessary to avoid conflicts with the sulfur pit, etc.

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- f. Current thinking is to use the T-3 jumper so that existing manhole 33-A can be flumed. The pipe stub between manhole 3-BB and 33-A will also be installed at this time. Then the T-3 jumper will be temporarily deactivated. This will be done around 2/1/86.

The T-3 jumper will again be put into service when manholes 3-BB and 33-A are ready for brickwork. The jumper will be used to flow from west to east while the brickwork is installed in both these manholes. This will take about 45 days.

At the time the brickwork is being installed in these manholes, work can start on excavation of the trench for the 42" VCP line from manholes 3-BB to 3-CC. The existing 36" sewer line between manholes 3-C and 2-U cannot be crossed until the flow has been turned in at manholes 33-A/3-BB..

The manholes are the critical path item on this project in terms of completing the work for the turn in at 33-A/3-BB. This will occur in the late spring/early summer of 1986.

- g. The step-by-step procedure leading to the final turn on of the sewer at 33-A/3-BB is being developed by Petterson.
- h. It may be possible to build manhole 3-CC and install some 42" VCP pipe between manholes 3-CC and 3-EE. Any work that can be done in this area will be helpful to the job. Petterson and Nelson to review.

The next progress meeting will be held on Thursday, December 19 at 9:30 A.M. at the construction trailers. All Monsanto personnel are to meet prior to this meeting at 9:00 A.M.

G. A. Grundmann

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